

* =mandatory field)

- **Investigator:**
 - **Name*:** Dr. Adrienne Sutton
 - **Organization:** NOAA/PMEL
 - **Address:**
NOAA/PMEL
7600 Sand Point Way NE
Seattle Washington, 98115 USA
Phone: 206-526-6879
 - **Email:** adrienne.sutton@noaa.gov
- **Dataset_Info:**
 - Dataset_ID*: TAO165E0N_Feb2010_Feb2011
 - **Submission_Dates:**
 - Initial_Submission: 20130827 (YYYYMMDD)
 - Revised_Submission: (YYYYMMDD)
- **Cruise_Info:**
 - **Experiment:**
 - Experiment_Name*:
 - **Cruise:(-)**
 - Cruise_ID: (EXPOCODE)
 - Section: (Leg)
 - **Geographical_Coverage:**
 - Geographical_Region:
 - **Bounds:**
 - Westernmost_Longitude:
Enter decimal fractions of degrees:
or Degrees, Minutes, Seconds:
 - Easternmost_Longitude:
Enter decimal fractions of degrees: +164.99 (+ = E, - = W)
or Degrees, Minutes, Seconds:
 - Northernmost_Latitude:
Enter decimal fractions of degrees: +0.02 (+ = N, - = S)
 - Southernmost_Latitude:
Enter decimal fractions of degrees:
 - **Temporal_Coverage:**
 - Start_Date: 20100223 (YYYYMMDD)
 - End_Date: 20110227 (YYYYMMDD)
- **Vessel:** Mooring platform
 - Vessel_Name:
 - Vessel_ID:
 - Country:
 - Vessel_Owner:
- **Variables_Info:**
 - **Variable:**
 - Variable_Name and Description*:
- xCO₂ SW (wet) (umol/mol) - Mole fraction of CO₂ in air in equilibrium with the seawater at sea surface temperature and measured humidity.
- CO₂ SW QF – Quality Flag for xCO₂ SW (wet).
- H₂O SW (mmol/mol) - Mole fraction of H₂O in air from equilibrator .
- xCO₂ Air (wet) (umol/mol) - Mole fraction of CO₂ in air from airblock, 4 feet above the sea surface at measured humidity.
- CO₂ Air QF – Quality Flag for xCO₂ Air (wet)
- H₂O Air (mmol/mol) - Mole fraction of H₂O in air from airblock, 4 feet above the sea surface.

- Licor Atm Pressure (hPa) – Atmospheric pressure at the airblock, 4 feet above the sea surface
- Licor Temp (C) – Temperature of the Infrared Licor 820 in degrees Celsius
- % O₂ - The percent oxygen of the surface seawater divided by the percent oxygen of the atmosphere at 4 feet above the sea surface. Disclaimer: The oxygen measurement is made in the equilibrated air. We have found that the oxygen does not come to complete equilibrium so any rapid changes in oxygen do not get properly captured using this system. Therefore, we tend to use the oxygen data only as a qualitative sense of the biology. It is not a quantitative measure.
- SST (C) - Sea Surface Temperature collected by NOAA/PMEL/TAO provide internally recorded SST data at 10 minute resolution. Daily data was only available at time of CO₂ QC. NOAA/PMEL/TAO advises to check the TAO site at the time of use for the most accurate data available.
- Salinity - Sea Surface Salinity collected by NOAA/PMEL/TAO. Papa records conductivity data at 10 minute intervals and then computes hourly averaged salinity during post-processing. Daily data was only available at time of CO₂ QC. NOAA/PMEL/TAO advises to check the TAO site at the time of use for the most accurate data available.
- xCO₂ SW (dry) (umol/mol) – Mole fraction of CO₂ in air in equilibrium with the seawater at sea surface temperature (dry air).
- xCO₂ Air (dry) (umol/mol) – Mole fraction of CO₂ in air at the airblock, 4 feet above the sea surface (dry air).
- fCO₂ SW (sat) uatm – Fugacity of CO₂ in air in equilibrium with the seawater at sea surface temperature (100% humidity). Since the measurements are taken at the sea surface, warming calculations are not necessary.
- fCO₂ Air (sat) uatm – Fugacity of CO₂ in air at the airblock, 4 feet above the sea surface (100% humidity).
- dfCO₂ – Difference of the fugacity of the CO₂ in seawater and the fugacity of the CO₂ in air (fCO₂ SW - fCO₂ Air).

- **Method_Description:***

- **Equilibrator_Design:**

- Equilibrator_Type: (show pick list) Bubble Equilibrator
 - Equilibrator_Volume: (L) N/A
 - Water_Flow_Rate: (L/min) N/A
 - Headspace_Gas_Flow_Rate: (L/min) ~600 cc/min
 - Vented: (show pick list) Yes

- Measurement_Method: Absolute, non-dispersive infrared (NDIR) gas analyzer

- Manufacturer_of_Calibration_Gas: NOAA Earth System Research Laboratory (ESRL)

- **CO₂_Sensors:**

- **CO₂_Sensor:**

- Manufacturer: Licor
 - Model: Environmental_Control: LI-820
 - Resolution: 0.01 ppm
 - Uncertainty: < 2.5% of reading with 14 cm bench (stated)
<1.5 ppm determined in lab
 - CO₂_Sensor_Calibration: (For each calibration gas, document traceability to an internationally recognized scale, including date and place of last calibration. Include uncertainty of assigned value.)

At the beginning of each sample, the instrument self-calibrates using a zero and high standard. The zero standard is generated by cycling a small amount of air through a soda lime chamber. The high standard is from a cylinder of calibrated standard reference gas, 435.12 umol/mol, from ESRL. ESRL

standards are traceable to WMO x93 scale with a stated reproducibility of 0.06 micromole/mole.

- **Other_Sensors:**
 - Manufacturer: Oxygen Sensor
 - Model: Maxtec
 - Resolution: Max-250
 - Uncertainty: 0.01 %
 - range: $\pm 2.0\%$ Full Scale over operating temperature
 - $\pm 1.0\%$ Full Scale @ constant temperature and pressure
 - Calibration: (For each sensor of pressure, temperature, and salinity, document traceability to an internationally recognized scale, including date and place of last calibration.)
Factory calibrated before purchase. Recalibrated to sea level atmospheric air every 7 days.
- **Other_Sensors:**
 - Manufacturer: Humidity Sensor
 - Model: Sensirion
 - Resolution: SHT71
 - Uncertainty: 0.01 %
 - Measurement range: 0-100% RH
 - Absolute RH accuracy: $\pm 3\%$ RH (20-80% RH)
 - Repeatability RH: $\pm 0.1\%$ RH
 - Calibration: (For each sensor of pressure, temperature, and salinity, document traceability to an internationally recognized scale, including date and place of last calibration.)
Factory calibrated before purchase.
- Method_References: (Publication(s) describing method)

Sabine, C. (2005): High-resolution ocean and atmosphere pCO₂ time-series measurements. The State of the Ocean and the Ocean Observing System for Climate, Annual Report, Fiscal Year 2004, NOAA/OGP/Office of Climate Observation, Section 3.32a, 246–253.

- Additional Information

- All measurements are at sea surface temperature and atmospheric pressure.
- During the equilibration cycle, a closed loop of air equilibrates with seawater for 10 minutes. Once the equilibration period is complete, the pump stops and the system opens to the atmosphere allowing the pressure to equilibrate with atmospheric pressure. Measurements are recorded for 30 seconds at 2 hertz and then averaged.
- During the air cycle, fresh air is pumped through the detector for 1 minute. Once the pump stops, the system opens to the atmosphere allowing the pressure to equilibrate with atmospheric pressure. Measurements are recorded for 30 seconds at 2 hertz and then averaged.
- The gas streams for both the air cycle and equilibrator cycle are partially dried before entering the detector. The values listed as wet xCO₂ generally have relative humidity levels ranging from 40 to 80 percent. The humidity levels increase over the course of a deployment.
- Sampling occurs every 3 hours. The infrared detector is calibrated at the beginning of every sampling period. Averaged data and standard deviations for each measurement are transmitted back daily.
- To calculate the dry measurements, the water mole fraction in the Licor detector must be known. A relative humidity sensor is located immediately downstream of the detector.
- As part of the QC process, each data set is compared with the Marine Boundary Layer (MBL) data from GlobalView-CO₂. The CO₂ air data from this deployment were -5.7 ± 3.7 umol/mol on average of the MBL data

and similarly offset from the next CO2 system deployed at this location. Therefore a correction of +5 umol/mol was applied to the CO2 (wet) data.

GLOBALVIEW-CO₂: Cooperative Atmospheric Data Integration Project - Carbon Dioxide. CD-ROM, NOAA ESRL, Boulder, Colorado [Also available on Internet via anonymous FTP to ftp.cmdl.noaa.gov, Path: ccg/co2/GLOBALVIEW], 2010

- During the QC process, an adjustment to the Licor pressure is also made based on each sensor's bias to barometric pressure as measured in the lab. This test has not yet been run on this system.
- The standard reference gas ran out on 9/11/10 21:00. Missing reference gas coefficients were recalculated using the correlation between Licor temperature and the coefficients from the beginning of the deployment until the gas ran out. xCO2 air and sw (wet) after 9/11/10 21:00 were then recalculated using these recalculated coefficients.
- No data = -9.999 or -999

- Data_set_References: (Publication(s) describing data set) **None**
- Citation: (How to cite this data set) **Sutton, A., C. Sabine, and S. Maenner. 2011. High-resolution ocean and atmosphere pCO₂ time-series measurements from mooring TAO 0°, 165°E.**
- **Data_Set_Link:**
 - URL*: http://www.pmel.noaa.gov/co2/moorings/eq_pco2/eq_pco2.htm
 - Label*: **PMEL CO2 Group – TAO165E mooring**

Link_Note: (Optional instructions or remarks)(m s t)

Quality Flags definitions:

- 2 = Acceptable measurement;
- 3 = Questionable measurement;
- 4 = Bad measurement
- 5 = Not reported;
- 9 = Sample not down for this measurement from this bottle.

Quality Flag Log for this dataset.

Date	Measurement	Value (Dry)	Flag	Comments
2/28/2010 21:17	xCO2_SW	406.9332049	3	likely bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/1/2010 0:17	xCO2_SW	397.6089992	3	likely bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/1/2010 3:17	xCO2_SW	402.8191132	3	likely bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/20/2010 9:17	xCO2_SW	410.9255127	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/20/2010 12:17	xCO2_SW	406.4047565	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/20/2010 15:17	xCO2_SW	405.7545017	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/20/2010 18:17	xCO2_SW	395.7885562	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle

3/20/2010 21:17	xCO2_SW	394.0707867	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/21/2010 0:17	xCO2_SW	410.086763	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/21/2010 3:17	xCO2_SW	428.4961269	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/21/2010 6:17	xCO2_SW	403.7310122	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/21/2010 9:17	xCO2_SW	412.8320517	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/21/2010 12:17	xCO2_SW	408.3543	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/21/2010 15:17	xCO2_SW	400.279104	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/21/2010 18:17	xCO2_SW	399.8875634	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/21/2010 21:17	xCO2_SW	403.527562	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/22/2010 0:17	xCO2_SW	429.6244743	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/22/2010 3:17	xCO2_SW	433.5371725	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/22/2010 6:17	xCO2_SW	441.6423521	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/22/2010 9:17	xCO2_SW	427.0954642	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/22/2010 12:17	xCO2_SW	427.8270151	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/22/2010 15:17	xCO2_SW	430.1484656	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/22/2010 18:17	xCO2_SW	426.4567286	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/22/2010 21:17	xCO2_SW	420.4611276	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/23/2010 0:17	xCO2_SW	431.0576353	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/23/2010 3:17	xCO2_SW	437.6012241	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/23/2010 6:17	xCO2_SW	448.6303839	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/23/2010 9:17	xCO2_SW	444.976269	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/23/2010 12:17	xCO2_SW	434.4451566	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/23/2010 15:17	xCO2_SW	409.4178776	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/23/2010 18:17	xCO2_SW	410.0181983	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/23/2010 21:17	xCO2_SW	411.5201539	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/24/2010 0:17	xCO2_SW	423.1656475	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/24/2010 3:17	xCO2_SW	426.2956851	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/24/2010 6:17	xCO2_SW	414.9746652	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/24/2010 9:17	xCO2_SW	408.3237849	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle

3/24/2010 12:17	xCO2_SW	421.3539535	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/24/2010 15:17	xCO2_SW	414.4529523	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/24/2010 18:17	xCO2_SW	392.8057163	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/24/2010 21:17	xCO2_SW	373.9703001	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/25/2010 0:17	xCO2_SW	393.4729496	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/25/2010 3:17	xCO2_SW	394.5294708	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/25/2010 6:17	xCO2_SW	430.423918	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/25/2010 9:17	xCO2_SW	372.1411069	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/25/2010 12:17	xCO2_SW	408.2737825	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/25/2010 15:17	xCO2_SW	404.126341	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/25/2010 18:17	xCO2_SW	431.5126901	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/25/2010 21:17	xCO2_SW	427.3016259	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/26/2010 0:17	xCO2_SW	439.3644237	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/26/2010 3:17	xCO2_SW	449.0775991	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/26/2010 6:17	xCO2_SW	447.3251469	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/26/2010 9:17	xCO2_SW	425.0700398	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/26/2010 12:17	xCO2_SW	421.3908949	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/26/2010 15:17	xCO2_SW	425.5581594	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/26/2010 18:17	xCO2_SW	436.5482452	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/26/2010 21:17	xCO2_SW	435.4542915	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/27/2010 0:17	xCO2_SW	425.345867	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/27/2010 3:17	xCO2_SW	433.493963	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/27/2010 6:17	xCO2_SW	445.9672803	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/27/2010 9:17	xCO2_SW	432.0379136	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				
3/27/2010 12:17	xCO2_SW	439.571966	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/27/2010 15:17	xCO2_SW	445.9899764	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/27/2010 18:17	xCO2_SW	436.7949874	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/27/2010 21:17	xCO2_SW	437.2756725	4	bad CO2 sw measurement due to pressure
problems during equilibrator cycle				
3/28/2010 0:17	xCO2_SW	443.8953604	4	bad CO2 sw measurement due to pressure problems
during equilibrator cycle				

3/28/2010 3:17	xCO2_SW	440.0030363	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/28/2010 6:17	xCO2_SW	423.374625	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/28/2010 9:17	xCO2_SW	438.6187064	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/28/2010 12:17	xCO2_SW	430.0038602	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/28/2010 15:17	xCO2_SW	414.7438623	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/29/2010 9:17	xCO2_SW	430.1452577	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/29/2010 21:17	xCO2_SW	418.1957856	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/30/2010 0:17	xCO2_SW	413.6491385	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/30/2010 3:17	xCO2_SW	411.7185376	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/31/2010 9:17	xCO2_SW	376.1442706	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
3/31/2010 12:17	xCO2_SW	368.7152618	4	bad CO2 sw measurement due to pressure problems during equilibrator cycle
4/4/2010 15:17	xCO2_SW	433.9459167	3	likely bad CO2 sw measurement due to pressure problems during equilibrator cycle
6/14/2010 21:17	xCO2_SW	462.3934452	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/14/2010 21:17	xCO2_Air	389.6183582	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/15/2010 0:17	xCO2_SW	469.6680646	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/15/2010 0:17	xCO2_Air	389.9614432	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/15/2010 21:17	xCO2_SW	463.0154266	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/15/2010 21:17	xCO2_Air	390.0971237	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/16/2010 0:17	xCO2_SW	473.7015818	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/16/2010 0:17	xCO2_Air	389.9481792	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/16/2010 18:17	xCO2_SW	464.5532635	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/16/2010 18:17	xCO2_Air	389.5620423	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/16/2010 21:17	xCO2_SW	466.3688347	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/16/2010 21:17	xCO2_Air	390.0837615	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/18/2010 0:17	xCO2_SW	468.5978338	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/18/2010 0:17	xCO2_Air	390.0827885	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/18/2010 21:17	xCO2_SW	470.9446369	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/18/2010 21:17	xCO2_Air	390.4674655	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/19/2010 0:17	xCO2_SW	467.5717742	3	likely bad CO2 air and sw measurement due to problems with the Licor

6/19/2010 0:17	xCO2_Air	390.4300673	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/19/2010 21:17	xCO2_SW	469.300155	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/19/2010 21:17	xCO2_Air	390.2939974	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/20/2010 21:17	xCO2_SW	468.8587657	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/20/2010 21:17	xCO2_Air	389.9427974	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/21/2010 0:17	xCO2_SW	470.1453028	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/21/2010 0:17	xCO2_Air	390.062972	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/21/2010 21:17	xCO2_SW	468.9386302	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/21/2010 21:17	xCO2_Air	390.1292086	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/22/2010 0:17	xCO2_SW	471.1834995	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/22/2010 0:17	xCO2_Air	389.8938704	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/22/2010 21:17	xCO2_SW	467.8898851	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/22/2010 21:17	xCO2_Air	389.6074231	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/23/2010 0:17	xCO2_SW	475.4991884	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/23/2010 0:17	xCO2_Air	389.7764394	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/23/2010 21:17	xCO2_SW	469.2439602	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/23/2010 21:17	xCO2_Air	390.2382499	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/24/2010 0:17	xCO2_SW	476.8635814	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/24/2010 0:17	xCO2_Air	389.7937578	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/24/2010 21:17	xCO2_SW	469.0466737	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/24/2010 21:17	xCO2_Air	390.2509575	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/25/2010 0:17	xCO2_SW	472.8319087	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/25/2010 0:17	xCO2_Air	389.8631593	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/28/2010 21:17	xCO2_SW	479.1203246	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/28/2010 21:17	xCO2_Air	389.6766856	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/29/2010 0:17	xCO2_SW	479.0983821	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/29/2010 0:17	xCO2_Air	389.4597444	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/30/2010 0:17	xCO2_SW	477.1275522	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/30/2010 0:17	xCO2_Air	390.0624023	3	likely bad CO2 air and sw measurement due to problems with the Licor

6/30/2010 21:17	xCO2_SW	486.3317016	3	likely bad CO2 air and sw measurement due to problems with the Licor
6/30/2010 21:17	xCO2_Air	389.8293493	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/3/2010 3:17	xCO2_SW	489.0197694	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/3/2010 3:17	xCO2_Air	389.4814124	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/5/2010 6:17	xCO2_SW	492.8308616	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/5/2010 6:17	xCO2_Air	389.9065912	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/6/2010 6:17	xCO2_SW	495.3405925	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/6/2010 6:17	xCO2_Air	389.4746941	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/7/2010 0:17	xCO2_SW	495.1091693	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/7/2010 0:17	xCO2_Air	389.3855875	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/7/2010 21:17	xCO2_SW	494.3557143	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/7/2010 21:17	xCO2_Air	389.7087188	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/8/2010 0:17	xCO2_SW	500.1603587	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/8/2010 0:17	xCO2_Air	389.253716	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/8/2010 3:17	xCO2_SW	501.1166868	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/8/2010 3:17	xCO2_Air	389.402617	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/9/2010 0:17	xCO2_SW	503.8691984	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/9/2010 0:17	xCO2_Air	388.1983872	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/9/2010 3:17	xCO2_SW	522.8992976	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/9/2010 3:17	xCO2_Air	388.7423186	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/9/2010 21:17	xCO2_SW	488.2869105	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/9/2010 21:17	xCO2_Air	386.7549558	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/11/2010 0:17	xCO2_SW	485.2415646	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/11/2010 0:17	xCO2_Air	388.9036535	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/11/2010 3:17	xCO2_SW	502.1668949	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/11/2010 3:17	xCO2_Air	388.4267676	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/11/2010 21:17	xCO2_SW	479.4441674	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/11/2010 21:17	xCO2_Air	389.4980569	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/12/2010 3:17	xCO2_SW	476.904826	3	likely bad CO2 air and sw measurement due to problems with the Licor

7/12/2010 3:17	xCO2_Air	389.3164227	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/12/2010 21:17	xCO2_SW	476.1274178	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/12/2010 21:17	xCO2_Air	389.5246933	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/13/2010 0:17	xCO2_SW	479.1997912	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/13/2010 0:17	xCO2_Air	389.3885422	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/14/2010 0:17	xCO2_SW	480.4507472	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/14/2010 0:17	xCO2_Air	389.4941107	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/14/2010 12:17	xCO2_SW	476.9034444	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/14/2010 12:17	xCO2_Air	389.0529337	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/15/2010 21:17	xCO2_SW	490.3457833	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/15/2010 21:17	xCO2_Air	389.2646368	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/16/2010 0:17	xCO2_SW	499.926017	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/16/2010 0:17	xCO2_Air	389.0687479	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/16/2010 21:17	xCO2_SW	489.6254468	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/16/2010 21:17	xCO2_Air	389.238733	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/18/2010 12:17	xCO2_SW	492.1038726	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/18/2010 12:17	xCO2_Air	388.5392613	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/18/2010 15:17	xCO2_SW	494.1843371	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/18/2010 15:17	xCO2_Air	388.9194544	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/20/2010 21:17	xCO2_SW	505.0098468	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/20/2010 21:17	xCO2_Air	389.3681376	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/21/2010 3:17	xCO2_SW	498.9071111	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/21/2010 3:17	xCO2_Air	389.3806454	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/25/2010 21:17	xCO2_SW	494.3758506	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/25/2010 21:17	xCO2_Air	388.308046	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/28/2010 3:17	xCO2_SW	493.7393691	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/28/2010 3:17	xCO2_Air	388.2586662	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/28/2010 21:17	xCO2_SW	495.9683106	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/28/2010 21:17	xCO2_Air	388.3044067	3	likely bad CO2 air and sw measurement due to problems with the Licor

7/29/2010 3:17	xCO2_SW	489.7465154	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/29/2010 3:17	xCO2_Air	388.6816992	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/30/2010 0:17	xCO2_SW	501.6177479	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/30/2010 0:17	xCO2_Air	388.2929382	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/30/2010 21:17	xCO2_SW	499.1126991	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/30/2010 21:17	xCO2_Air	387.4231098	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/31/2010 21:17	xCO2_SW	508.6996177	3	likely bad CO2 air and sw measurement due to problems with the Licor
7/31/2010 21:17	xCO2_Air	388.6060922	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/1/2010 0:17	xCO2_SW	503.0427216	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/1/2010 0:17	xCO2_Air	388.6965837	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/2/2010 0:17	xCO2_SW	507.5201055	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/2/2010 0:17	xCO2_Air	385.425701	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/2/2010 21:17	xCO2_SW	509.3695749	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/2/2010 21:17	xCO2_Air	385.158495	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/3/2010 0:17	xCO2_SW	491.3221274	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/3/2010 0:17	xCO2_Air	387.1232465	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/3/2010 21:17	xCO2_SW	490.6036138	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/3/2010 21:17	xCO2_Air	388.6594699	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/4/2010 0:17	xCO2_SW	489.1957766	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/4/2010 0:17	xCO2_Air	388.5226563	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/4/2010 21:17	xCO2_SW	517.4506389	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/4/2010 21:17	xCO2_Air	389.2559877	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/5/2010 0:17	xCO2_SW	509.242117	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/5/2010 0:17	xCO2_Air	388.8456546	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/5/2010 6:17	xCO2_SW	494.5826146	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/5/2010 6:17	xCO2_Air	389.0814256	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/5/2010 21:17	xCO2_SW	499.4560914	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/5/2010 21:17	xCO2_Air	386.8910391	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/6/2010 0:17	xCO2_SW	500.7464602	3	likely bad CO2 air and sw measurement due to problems with the Licor

8/6/2010 0:17	xCO2_Air	388.2534219	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/6/2010 21:17	xCO2_SW	501.344168	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/6/2010 21:17	xCO2_Air	386.1032335	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/7/2010 0:17	xCO2_SW	504.4504949	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/7/2010 0:17	xCO2_Air	387.5020053	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/7/2010 21:17	xCO2_SW	505.3081538	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/7/2010 21:17	xCO2_Air	389.057746	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/8/2010 0:17	xCO2_SW	507.4362072	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/8/2010 0:17	xCO2_Air	388.9160132	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/8/2010 21:17	xCO2_SW	513.7558707	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/8/2010 21:17	xCO2_Air	386.7165678	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/9/2010 21:17	xCO2_SW	508.4770468	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/9/2010 21:17	xCO2_Air	387.8735468	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/10/2010 21:17	xCO2_SW	494.2894789	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/10/2010 21:17	xCO2_Air	385.8215377	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/11/2010 0:17	xCO2_SW	494.9520961	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/11/2010 0:17	xCO2_Air	387.4458287	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/11/2010 21:17	xCO2_SW	491.851094	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/11/2010 21:17	xCO2_Air	384.9978497	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/12/2010 0:17	xCO2_SW	496.4411679	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/12/2010 0:17	xCO2_Air	385.2747717	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/12/2010 21:17	xCO2_SW	493.3259089	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/12/2010 21:17	xCO2_Air	386.064382	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/13/2010 0:17	xCO2_SW	489.8772691	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/13/2010 0:17	xCO2_Air	385.0669135	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/13/2010 21:17	xCO2_SW	479.1687034	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/13/2010 21:17	xCO2_Air	387.8086144	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/14/2010 0:17	xCO2_SW	482.302377	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/14/2010 0:17	xCO2_Air	387.852915	3	likely bad CO2 air and sw measurement due to problems with the Licor

8/15/2010 0:17	xCO2_SW	481.3688667	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/15/2010 0:17	xCO2_Air	385.7647993	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/15/2010 21:17	xCO2_SW	476.531658	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/15/2010 21:17	xCO2_Air	384.5863841	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/16/2010 0:17	xCO2_SW	479.2598884	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/16/2010 0:17	xCO2_Air	387.5914355	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/16/2010 21:17	xCO2_SW	477.4338183	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/16/2010 21:17	xCO2_Air	388.2246705	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/17/2010 0:17	xCO2_SW	475.5233406	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/17/2010 0:17	xCO2_Air	388.7835131	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/17/2010 21:17	xCO2_SW	483.0421659	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/17/2010 21:17	xCO2_Air	387.6102465	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/18/2010 0:17	xCO2_SW	467.4591596	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/18/2010 0:17	xCO2_Air	388.4567203	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/18/2010 21:17	xCO2_SW	473.7368842	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/18/2010 21:17	xCO2_Air	385.9113671	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/19/2010 0:17	xCO2_SW	474.7421428	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/19/2010 0:17	xCO2_Air	387.7261691	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/19/2010 21:17	xCO2_SW	472.5424907	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/19/2010 21:17	xCO2_Air	385.6788931	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/20/2010 0:17	xCO2_SW	471.0710704	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/20/2010 0:17	xCO2_Air	387.6168802	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/20/2010 21:17	xCO2_SW	473.0933162	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/20/2010 21:17	xCO2_Air	386.0404909	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/21/2010 0:17	xCO2_SW	474.9816399	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/21/2010 0:17	xCO2_Air	386.8075185	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/21/2010 21:17	xCO2_SW	479.9715386	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/21/2010 21:17	xCO2_Air	386.1188197	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/22/2010 0:17	xCO2_SW	477.2002201	3	likely bad CO2 air and sw measurement due to problems with the Licor

8/22/2010 0:17	xCO2_Air	387.6389379	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/22/2010 21:17	xCO2_SW	483.2866232	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/22/2010 21:17	xCO2_Air	385.9887504	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/23/2010 0:17	xCO2_SW	478.5433834	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/23/2010 0:17	xCO2_Air	385.9622334	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/23/2010 21:17	xCO2_SW	483.8972564	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/23/2010 21:17	xCO2_Air	384.9053361	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/24/2010 0:17	xCO2_SW	475.3285401	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/24/2010 0:17	xCO2_Air	386.9091968	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/24/2010 21:17	xCO2_SW	489.8679351	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/24/2010 21:17	xCO2_Air	386.1823316	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/25/2010 0:17	xCO2_SW	483.3567539	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/25/2010 0:17	xCO2_Air	387.8996404	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/25/2010 21:17	xCO2_SW	485.0951803	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/25/2010 21:17	xCO2_Air	386.408288	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/26/2010 0:17	xCO2_SW	484.9044735	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/26/2010 0:17	xCO2_Air	385.5357364	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/26/2010 3:17	xCO2_SW	485.1774347	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/26/2010 3:17	xCO2_Air	387.6392421	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/26/2010 21:17	xCO2_SW	482.4342608	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/26/2010 21:17	xCO2_Air	385.553124	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/27/2010 0:17	xCO2_SW	482.4500926	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/27/2010 0:17	xCO2_Air	385.6070064	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/27/2010 21:17	xCO2_SW	483.4251109	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/27/2010 21:17	xCO2_Air	385.6864315	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/28/2010 0:17	xCO2_SW	478.0081173	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/28/2010 0:17	xCO2_Air	384.8485979	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/28/2010 21:17	xCO2_SW	479.1582961	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/28/2010 21:17	xCO2_Air	385.2517458	3	likely bad CO2 air and sw measurement due to problems with the Licor

8/29/2010 0:17	xCO2_SW	478.7219224	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/29/2010 0:17	xCO2_Air	386.0170201	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/29/2010 21:17	xCO2_SW	479.3466311	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/29/2010 21:17	xCO2_Air	386.3603734	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/30/2010 0:17	xCO2_SW	473.6853141	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/30/2010 0:17	xCO2_Air	386.5113687	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/30/2010 21:17	xCO2_SW	468.8736632	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/30/2010 21:17	xCO2_Air	387.3460759	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/31/2010 0:17	xCO2_SW	470.8960932	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/31/2010 0:17	xCO2_Air	387.0285251	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/31/2010 21:17	xCO2_SW	467.8403681	3	likely bad CO2 air and sw measurement due to problems with the Licor
8/31/2010 21:17	xCO2_Air	385.6782491	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/1/2010 0:17	xCO2_SW	466.483759	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/1/2010 0:17	xCO2_Air	387.4009139	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/1/2010 21:17	xCO2_SW	469.1446042	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/1/2010 21:17	xCO2_Air	386.1941743	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/2/2010 0:17	xCO2_SW	468.0169681	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/2/2010 0:17	xCO2_Air	387.9217355	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/2/2010 21:17	xCO2_SW	474.8224819	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/2/2010 21:17	xCO2_Air	386.4533685	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/3/2010 0:17	xCO2_SW	473.9749869	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/3/2010 0:17	xCO2_Air	386.8830056	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/3/2010 21:17	xCO2_SW	478.4395756	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/3/2010 21:17	xCO2_Air	385.7520347	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/4/2010 0:17	xCO2_SW	475.7923695	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/4/2010 0:17	xCO2_Air	387.8077757	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/4/2010 21:17	xCO2_SW	491.0987316	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/4/2010 21:17	xCO2_Air	385.8209248	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/5/2010 0:17	xCO2_SW	487.4309669	3	likely bad CO2 air and sw measurement due to problems with the Licor

9/5/2010 0:17	xCO2_Air	385.7593824	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/5/2010 21:17	xCO2_SW	488.0644004	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/5/2010 21:17	xCO2_Air	385.1725833	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/6/2010 0:17	xCO2_SW	485.2951463	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/6/2010 0:17	xCO2_Air	384.6905471	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/6/2010 3:17	xCO2_SW	484.7297775	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/6/2010 3:17	xCO2_Air	386.8429586	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/6/2010 21:17	xCO2_SW	486.0555956	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/6/2010 21:17	xCO2_Air	384.7615968	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/7/2010 0:17	xCO2_SW	488.4151036	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/7/2010 0:17	xCO2_Air	384.3944554	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/7/2010 21:17	xCO2_SW	485.7353332	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/7/2010 21:17	xCO2_Air	383.5420193	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/8/2010 0:17	xCO2_SW	488.8015717	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/8/2010 0:17	xCO2_Air	384.106928	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/8/2010 21:17	xCO2_SW	495.2775057	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/8/2010 21:17	xCO2_Air	382.5609878	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 0:17	xCO2_SW	492.823419	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 0:17	xCO2_Air	381.929267	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 3:17	xCO2_SW	493.3990641	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 3:17	xCO2_Air	384.9189952	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 6:17	xCO2_SW	489.8992909	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 6:17	xCO2_Air	385.697365	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 9:17	xCO2_SW	484.2128408	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 9:17	xCO2_Air	386.3057441	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 12:17	xCO2_SW	487.9563624	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 12:17	xCO2_Air	385.7167792	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 15:17	xCO2_SW	489.5258499	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/9/2010 15:17	xCO2_Air	385.4349378	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement

9/9/2010 18:17	xCO2_SW	490.1431507	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/9/2010 18:17	xCO2_Air	385.4504533	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/9/2010 21:17	xCO2_SW	507.7176301	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/9/2010 21:17	xCO2_Air	403.4810619	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 0:17	xCO2_SW	504.6119075	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 0:17	xCO2_Air	403.6531817	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 3:17	xCO2_SW	503.6052588	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 3:17	xCO2_Air	401.470021	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 6:17	xCO2_SW	501.154909	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 6:17	xCO2_Air	403.1042885	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 9:17	xCO2_SW	504.8198145	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 9:17	xCO2_Air	404.6049288	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 12:17	xCO2_SW	508.2273773	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 12:17	xCO2_Air	404.6922442	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 15:17	xCO2_SW	517.1645637	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 15:17	xCO2_Air	407.4302155	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 18:17	xCO2_SW	514.6151865	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 18:17	xCO2_Air	405.8489678	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 21:17	xCO2_SW	513.9840494	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/10/2010 21:17	xCO2_Air	402.84061	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 0:17	xCO2_SW	513.6082205	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 0:17	xCO2_Air	402.1555001	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 3:17	xCO2_SW	509.9236446	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 3:17	xCO2_Air	404.510982	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 6:17	xCO2_SW	501.8085858	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 6:17	xCO2_Air	403.0076156	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 9:17	xCO2_SW	503.8528291	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 9:17	xCO2_Air	404.3900816	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 12:17	xCO2_SW	508.9744246	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				

9/11/2010 12:17	xCO2_Air	405.3744176	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 15:17	xCO2_SW	512.3006156	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 15:17	xCO2_Air	404.6430851	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 18:17	xCO2_SW	512.3873903	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 18:17	xCO2_Air	405.1397473	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 21:16	xCO2_SW	504.7755573	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/11/2010 21:16	xCO2_Air	400.8776352	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 0:16	xCO2_SW	504.2310008	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 0:16	xCO2_Air	400.2338716	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 3:16	xCO2_SW	504.5128734	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 3:16	xCO2_Air	402.5484974	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 6:16	xCO2_SW	503.5425146	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 6:16	xCO2_Air	405.0521221	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 9:16	xCO2_SW	503.9527938	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 9:16	xCO2_Air	403.6876899	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 12:16	xCO2_SW	507.0106199	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 12:16	xCO2_Air	405.8415063	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 15:16	xCO2_SW	505.6644327	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 15:16	xCO2_Air	404.25071	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 18:16	xCO2_SW	517.8629881	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 18:16	xCO2_Air	412.5958422	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 21:16	xCO2_SW	505.4063469	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/12/2010 21:16	xCO2_Air	399.8321846	4	bad CO2 measurements as span gas was running
out - was able to recalculate CO2 9/20/10 6:00 measurement				
9/13/2010 0:16	xCO2_SW	504.6156456	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/13/2010 0:16	xCO2_Air	400.1073869	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/13/2010 3:16	xCO2_SW	509.430789	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/13/2010 3:16	xCO2_Air	401.346267	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/13/2010 6:16	xCO2_SW	506.0491014	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				
9/13/2010 6:16	xCO2_Air	399.3497953	4	bad CO2 measurements as span gas was running out -
was able to recalculate CO2 9/20/10 6:00 measurement				

9/13/2010 9:16	xCO2_SW	508.3931874	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/13/2010 9:16	xCO2_Air	401.9408636	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/13/2010 12:16	xCO2_SW	511.5659436	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/13/2010 12:16	xCO2_Air	400.8925634	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/13/2010 15:16	xCO2_SW	511.4907257	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/13/2010 15:16	xCO2_Air	403.1361805	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/13/2010 18:16	xCO2_SW	515.520371	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/13/2010 18:16	xCO2_Air	405.3640434	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/13/2010 21:16	xCO2_SW	510.398592	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/13/2010 21:16	xCO2_Air	400.3208602	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 0:16	xCO2_SW	508.4055383	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 0:16	xCO2_Air	397.0176337	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 3:16	xCO2_SW	509.8355914	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 3:16	xCO2_Air	399.6353994	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 6:16	xCO2_SW	498.6647136	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 6:16	xCO2_Air	398.0855537	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 9:16	xCO2_SW	500.4565621	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 9:16	xCO2_Air	400.5556127	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 12:16	xCO2_SW	501.0844273	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 12:16	xCO2_Air	400.3020266	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 15:16	xCO2_SW	504.7220464	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 15:16	xCO2_Air	402.2624349	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 18:16	xCO2_SW	509.965736	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 18:16	xCO2_Air	402.2631493	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 21:16	xCO2_SW	502.7914704	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/14/2010 21:16	xCO2_Air	397.446017	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 0:16	xCO2_SW	501.7574811	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 0:16	xCO2_Air	396.3808877	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 3:16	xCO2_SW	502.087991	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement

9/15/2010 3:16	xCO2_Air	397.9792157	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 6:16	xCO2_SW	493.7809635	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 6:16	xCO2_Air	396.7565777	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 9:16	xCO2_SW	496.1973203	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 9:16	xCO2_Air	399.6418077	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 12:16	xCO2_SW	498.5362516	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 12:16	xCO2_Air	399.7388768	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 15:16	xCO2_SW	497.8629901	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 15:16	xCO2_Air	400.1698743	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 18:16	xCO2_SW	502.5825941	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 18:16	xCO2_Air	401.6997982	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 21:16	xCO2_SW	499.8666807	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/15/2010 21:16	xCO2_Air	401.0707262	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 0:16	xCO2_SW	498.7657456	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 0:16	xCO2_Air	397.1557902	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 3:16	xCO2_SW	496.9732808	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 3:16	xCO2_Air	400.633809	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 6:16	xCO2_SW	493.7743236	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 6:16	xCO2_Air	400.7520822	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 9:16	xCO2_SW	489.9465938	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 9:16	xCO2_Air	399.4572692	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 12:16	xCO2_SW	494.8226238	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 12:16	xCO2_Air	402.2181422	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 15:16	xCO2_SW	504.8421421	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 15:16	xCO2_Air	406.2290251	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 18:16	xCO2_SW	506.4222245	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 18:16	xCO2_Air	408.5135362	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 21:16	xCO2_SW	498.9660932	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/16/2010 21:16	xCO2_Air	401.9407192	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement

9/17/2010 0:16	xCO2_SW	496.543054	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 0:16	xCO2_Air	398.8822582	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 3:16	xCO2_SW	502.685575	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 3:16	xCO2_Air	405.5696137	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 6:16	xCO2_SW	491.8937045	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 6:16	xCO2_Air	399.2109551	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 9:16	xCO2_SW	489.5551123	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 9:16	xCO2_Air	400.9108119	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 12:16	xCO2_SW	492.8452924	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 12:16	xCO2_Air	402.1370048	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 15:16	xCO2_SW	496.2912198	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 15:16	xCO2_Air	403.4579604	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 18:16	xCO2_SW	499.3893768	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 18:16	xCO2_Air	404.1243403	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 21:16	xCO2_SW	494.4450838	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/17/2010 21:16	xCO2_Air	400.5921325	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 0:16	xCO2_SW	493.9725407	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 0:16	xCO2_Air	399.9140726	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 3:16	xCO2_SW	496.4526812	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 3:16	xCO2_Air	402.2397181	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 6:16	xCO2_SW	494.0657711	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 6:16	xCO2_Air	400.2612664	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 9:16	xCO2_SW	493.9641458	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 9:16	xCO2_Air	401.5385171	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 12:16	xCO2_SW	493.9377698	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 12:16	xCO2_Air	402.2163892	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 15:16	xCO2_SW	494.7098458	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 15:16	xCO2_Air	403.4922883	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 18:16	xCO2_SW	496.5869776	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement

9/18/2010 18:16	xCO2_Air	404.6094801	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 21:16	xCO2_SW	493.4438291	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/18/2010 21:16	xCO2_Air	400.5564645	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 0:16	xCO2_SW	493.7874001	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 0:16	xCO2_Air	400.1054467	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 3:16	xCO2_SW	497.1354163	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 3:16	xCO2_Air	403.9233355	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 6:16	xCO2_SW	491.9182297	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 6:16	xCO2_Air	399.9833997	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 9:16	xCO2_SW	486.0072334	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 9:16	xCO2_Air	400.9945087	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 12:16	xCO2_SW	490.9946396	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 12:16	xCO2_Air	402.1679956	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 15:16	xCO2_SW	494.5476966	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 15:16	xCO2_Air	403.1299456	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 18:16	xCO2_SW	498.1821717	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 18:16	xCO2_Air	406.9371974	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 21:16	xCO2_SW	493.7967336	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/19/2010 21:16	xCO2_Air	402.4495894	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/20/2010 0:16	xCO2_SW	491.4763031	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/20/2010 0:16	xCO2_Air	403.5039219	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/20/2010 3:16	xCO2_SW	491.2658249	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/20/2010 3:16	xCO2_Air	401.4538782	4	bad CO2 measurements as span gas was running out - was able to recalculate CO2 9/20/10 6:00 measurement
9/21/2010 6:16	xCO2_SW	480.1221279	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/21/2010 6:16	xCO2_Air	386.2633345	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/21/2010 9:16	xCO2_SW	470.7267935	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/21/2010 9:16	xCO2_Air	386.4824795	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/21/2010 12:16	xCO2_SW	466.689832	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/21/2010 12:16	xCO2_Air	386.1188994	3	likely bad CO2 air and sw measurement due to problems with the Licor

9/21/2010 21:16	xCO2_SW	463.985144	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/21/2010 21:16	xCO2_Air	381.7393671	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/22/2010 0:16	xCO2_SW	467.1303754	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/22/2010 0:16	xCO2_Air	383.3211977	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/22/2010 21:16	xCO2_SW	459.2814555	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/22/2010 21:16	xCO2_Air	383.0527534	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/23/2010 0:16	xCO2_SW	465.6150728	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/23/2010 0:16	xCO2_Air	383.6323209	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/23/2010 21:16	xCO2_SW	458.6006354	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/23/2010 21:16	xCO2_Air	382.4207762	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/24/2010 0:16	xCO2_SW	461.7011738	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/24/2010 0:16	xCO2_Air	383.2556976	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/24/2010 21:16	xCO2_SW	460.657621	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/24/2010 21:16	xCO2_Air	382.7957965	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/25/2010 0:16	xCO2_SW	466.6816572	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/25/2010 0:16	xCO2_Air	383.9395924	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/25/2010 3:16	xCO2_SW	465.6625844	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/25/2010 3:16	xCO2_Air	383.8901233	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/25/2010 21:16	xCO2_SW	461.233609	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/25/2010 21:16	xCO2_Air	382.7189422	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/26/2010 0:16	xCO2_SW	464.8780885	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/26/2010 0:16	xCO2_Air	383.4251753	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/26/2010 3:16	xCO2_SW	474.4048466	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/26/2010 3:16	xCO2_Air	384.2211296	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/26/2010 21:16	xCO2_SW	467.5216376	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/26/2010 21:16	xCO2_Air	384.6328372	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/27/2010 3:16	xCO2_SW	473.6874241	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/27/2010 3:16	xCO2_Air	383.9470807	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/27/2010 6:16	xCO2_SW	469.2358288	3	likely bad CO2 air and sw measurement due to problems with the Licor

9/27/2010 6:16	xCO2_Air	384.8617106	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/27/2010 21:16	xCO2_SW	471.3517881	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/27/2010 21:16	xCO2_Air	383.3615055	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/28/2010 3:16	xCO2_SW	479.4980093	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/28/2010 3:16	xCO2_Air	384.0644251	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/28/2010 21:16	xCO2_SW	474.4109171	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/28/2010 21:16	xCO2_Air	383.3581762	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/29/2010 3:16	xCO2_SW	478.4520075	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/29/2010 3:16	xCO2_Air	384.7823395	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/29/2010 21:16	xCO2_SW	477.9620202	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/29/2010 21:16	xCO2_Air	383.1161669	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/30/2010 3:16	xCO2_SW	461.3407255	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/30/2010 3:16	xCO2_Air	384.2156655	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/30/2010 21:16	xCO2_SW	475.8918154	3	likely bad CO2 air and sw measurement due to problems with the Licor
9/30/2010 21:16	xCO2_Air	383.6300822	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/1/2010 3:16	xCO2_SW	472.2523386	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/1/2010 3:16	xCO2_Air	383.9548283	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/1/2010 21:16	xCO2_SW	467.2860775	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/1/2010 21:16	xCO2_Air	385.0440471	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/3/2010 3:16	xCO2_SW	472.4105784	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/3/2010 3:16	xCO2_Air	383.6852938	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/5/2010 3:16	xCO2_SW	472.0551541	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/5/2010 3:16	xCO2_Air	384.9119077	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/7/2010 3:16	xCO2_SW	473.7087078	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/7/2010 3:16	xCO2_Air	384.2795394	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/7/2010 21:16	xCO2_SW	479.7479813	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/7/2010 21:16	xCO2_Air	384.1191075	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/8/2010 0:16	xCO2_SW	479.6137946	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/8/2010 0:16	xCO2_Air	384.0666298	3	likely bad CO2 air and sw measurement due to problems with the Licor

10/8/2010 3:16	xCO2_SW	482.5777738	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/8/2010 3:16	xCO2_Air	384.6270298	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/8/2010 21:16	xCO2_SW	485.9111036	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/8/2010 21:16	xCO2_Air	384.4071965	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/9/2010 21:16	xCO2_SW	488.9988779	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/9/2010 21:16	xCO2_Air	384.7128548	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/10/2010 0:16	xCO2_SW	486.6853095	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/10/2010 0:16	xCO2_Air	384.5197453	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/10/2010 21:16	xCO2_SW	484.946041	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/10/2010 21:16	xCO2_Air	383.8172118	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/11/2010 21:16	xCO2_SW	479.9968937	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/11/2010 21:16	xCO2_Air	383.4457733	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/12/2010 0:16	xCO2_SW	480.5937158	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/12/2010 0:16	xCO2_Air	384.9627369	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/12/2010 21:16	xCO2_SW	480.7334357	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/12/2010 21:16	xCO2_Air	383.0542138	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/13/2010 0:16	xCO2_SW	482.02466	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/13/2010 0:16	xCO2_Air	385.108113	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/13/2010 21:16	xCO2_SW	487.2554184	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/13/2010 21:16	xCO2_Air	383.7036201	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/14/2010 0:16	xCO2_SW	488.3042988	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/14/2010 0:16	xCO2_Air	383.7350947	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/14/2010 21:16	xCO2_SW	489.1339541	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/14/2010 21:16	xCO2_Air	383.3492026	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/15/2010 21:16	xCO2_SW	486.1876085	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/15/2010 21:16	xCO2_Air	383.3419498	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/16/2010 0:16	xCO2_SW	484.7801273	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/16/2010 0:16	xCO2_Air	384.235852	3	likely bad CO2 air and sw measurement due to problems with the Licor
10/16/2010 21:16	xCO2_SW	486.09617	3	likely bad CO2 air and sw measurement due to problems with the Licor

10/16/2010 21:16	xCO2_Air	381.8886894	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/17/2010 0:16	xCO2_SW	491.1752115	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/17/2010 0:16	xCO2_Air	383.8409188	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/17/2010 21:16	xCO2_SW	481.7188501	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/17/2010 21:16	xCO2_Air	382.4010035	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/18/2010 0:16	xCO2_SW	485.2650691	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/18/2010 0:16	xCO2_Air	385.1105654	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/18/2010 21:16	xCO2_SW	484.8990663	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/18/2010 21:16	xCO2_Air	383.1219042	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/19/2010 0:16	xCO2_SW	489.1953914	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/19/2010 0:16	xCO2_Air	383.7329589	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/19/2010 21:16	xCO2_SW	477.9416018	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/19/2010 21:16	xCO2_Air	383.4873724	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/20/2010 0:16	xCO2_SW	467.6948945	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/20/2010 0:16	xCO2_Air	385.5327151	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/20/2010 21:16	xCO2_SW	470.3988502	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/20/2010 21:16	xCO2_Air	383.7372617	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/21/2010 0:16	xCO2_SW	468.7849235	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/21/2010 0:16	xCO2_Air	385.1574639	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/21/2010 21:16	xCO2_SW	458.7820922	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/21/2010 21:16	xCO2_Air	383.3824554	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/22/2010 0:16	xCO2_SW	460.6561985	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/22/2010 0:16	xCO2_Air	383.9048753	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/22/2010 21:16	xCO2_SW	455.7564994	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/22/2010 21:16	xCO2_Air	382.039446	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/23/2010 0:16	xCO2_SW	464.9483853	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/23/2010 0:16	xCO2_Air	384.0502041	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/24/2010 21:16	xCO2_SW	456.4572652	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
10/24/2010 21:16	xCO2_Air	383.4464129	3	likely bad CO2 air and sw measurement due to
problems with the Licor				

10/25/2010 0:16 problems with the Licor	xCO2_SW	460.3091532	3	likely bad CO2 air and sw measurement due to
10/25/2010 0:16 problems with the Licor	xCO2_Air	384.587131	3	likely bad CO2 air and sw measurement due to
10/25/2010 21:16 problems with the Licor	xCO2_SW	467.3304245	3	likely bad CO2 air and sw measurement due to
10/25/2010 21:16 problems with the Licor	xCO2_Air	383.4570539	3	likely bad CO2 air and sw measurement due to
10/26/2010 0:16 problems with the Licor	xCO2_SW	473.8775762	3	likely bad CO2 air and sw measurement due to
10/26/2010 0:16 problems with the Licor	xCO2_Air	385.191198	3	likely bad CO2 air and sw measurement due to
10/26/2010 21:16 problems with the Licor	xCO2_SW	466.3924881	3	likely bad CO2 air and sw measurement due to
10/26/2010 21:16 problems with the Licor	xCO2_Air	382.158853	3	likely bad CO2 air and sw measurement due to
10/27/2010 0:16 problems with the Licor	xCO2_SW	473.0588184	3	likely bad CO2 air and sw measurement due to
10/27/2010 0:16 problems with the Licor	xCO2_Air	382.3909191	3	likely bad CO2 air and sw measurement due to
10/27/2010 21:16 problems with the Licor	xCO2_SW	493.0612717	3	likely bad CO2 air and sw measurement due to
10/27/2010 21:16 problems with the Licor	xCO2_Air	383.429934	3	likely bad CO2 air and sw measurement due to
10/28/2010 21:16 problems with the Licor	xCO2_SW	479.8221577	3	likely bad CO2 air and sw measurement due to
10/28/2010 21:16 problems with the Licor	xCO2_Air	383.1411063	3	likely bad CO2 air and sw measurement due to
10/29/2010 0:16 problems with the Licor	xCO2_SW	478.9225134	3	likely bad CO2 air and sw measurement due to
10/29/2010 0:16 problems with the Licor	xCO2_Air	385.4548935	3	likely bad CO2 air and sw measurement due to
10/29/2010 21:16 problems with the Licor	xCO2_SW	481.8818952	3	likely bad CO2 air and sw measurement due to
10/29/2010 21:16 problems with the Licor	xCO2_Air	382.7553945	3	likely bad CO2 air and sw measurement due to
10/30/2010 0:16 problems with the Licor	xCO2_SW	480.5076608	3	likely bad CO2 air and sw measurement due to
10/30/2010 0:16 problems with the Licor	xCO2_Air	384.3583478	3	likely bad CO2 air and sw measurement due to
10/30/2010 21:16 problems with the Licor	xCO2_SW	480.8019592	3	likely bad CO2 air and sw measurement due to
10/30/2010 21:16 problems with the Licor	xCO2_Air	383.128309	3	likely bad CO2 air and sw measurement due to
10/31/2010 0:16 problems with the Licor	xCO2_SW	478.7616767	3	likely bad CO2 air and sw measurement due to
10/31/2010 0:16 problems with the Licor	xCO2_Air	383.9966135	3	likely bad CO2 air and sw measurement due to
10/31/2010 21:16 problems with the Licor	xCO2_SW	476.9670992	3	likely bad CO2 air and sw measurement due to
10/31/2010 21:16 problems with the Licor	xCO2_Air	382.1958563	3	likely bad CO2 air and sw measurement due to
11/1/2010 0:16 with the Licor	xCO2_SW	476.2815002	3	likely bad CO2 air and sw measurement due to problems
11/1/2010 0:16 with the Licor	xCO2_Air	383.2399483	3	likely bad CO2 air and sw measurement due to problems
11/1/2010 21:16 problems with the Licor	xCO2_SW	479.3212255	3	likely bad CO2 air and sw measurement due to

11/1/2010 21:16	xCO2_Air	383.0544729	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/2/2010 0:16	xCO2_SW	472.0922559	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/2/2010 0:16	xCO2_Air	384.946178	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/2/2010 21:16	xCO2_SW	473.6822102	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/2/2010 21:16	xCO2_Air	383.3385422	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/3/2010 0:16	xCO2_SW	473.8266229	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/3/2010 0:16	xCO2_Air	385.0430884	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/3/2010 21:16	xCO2_SW	468.6326187	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/3/2010 21:16	xCO2_Air	383.1756794	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/4/2010 0:16	xCO2_SW	469.3600157	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/4/2010 0:16	xCO2_Air	383.4812753	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/4/2010 21:16	xCO2_SW	466.3163565	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/4/2010 21:16	xCO2_Air	383.252564	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/5/2010 0:16	xCO2_SW	468.5124962	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/5/2010 0:16	xCO2_Air	383.0959382	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/5/2010 3:16	xCO2_SW	473.011147	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/5/2010 3:16	xCO2_Air	383.1980875	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/5/2010 21:16	xCO2_SW	468.840795	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/5/2010 21:16	xCO2_Air	381.7266273	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/6/2010 0:16	xCO2_SW	469.0687353	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/6/2010 0:16	xCO2_Air	382.9888198	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/6/2010 3:16	xCO2_SW	470.7789171	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/6/2010 3:16	xCO2_Air	384.5413325	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/6/2010 21:16	xCO2_SW	466.6659282	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/6/2010 21:16	xCO2_Air	381.5826674	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/7/2010 0:16	xCO2_SW	469.8373898	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/7/2010 0:16	xCO2_Air	383.3164218	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/7/2010 21:16	xCO2_SW	468.0290557	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/7/2010 21:16	xCO2_Air	383.2090219	3	likely bad CO2 air and sw measurement due to problems with the Licor

11/8/2010 0:16	xCO2_SW	469.340892	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/8/2010 0:16	xCO2_Air	383.6184276	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/8/2010 21:16	xCO2_SW	466.0633936	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/8/2010 21:16	xCO2_Air	383.3593678	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/9/2010 0:16	xCO2_SW	468.6392965	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/9/2010 0:16	xCO2_Air	384.3315452	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/9/2010 21:16	xCO2_SW	466.4765785	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/9/2010 21:16	xCO2_Air	383.6461363	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/10/2010 0:16	xCO2_SW	472.2523548	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/10/2010 0:16	xCO2_Air	384.4491845	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/10/2010 21:16	xCO2_SW	477.466792	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/10/2010 21:16	xCO2_Air	382.1679779	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/11/2010 0:16	xCO2_SW	500.6572168	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/11/2010 0:16	xCO2_Air	382.7387929	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/11/2010 21:16	xCO2_SW	476.4509114	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/11/2010 21:16	xCO2_Air	384.3868254	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/12/2010 0:16	xCO2_SW	488.492057	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/12/2010 0:16	xCO2_Air	386.0513929	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/12/2010 6:16	xCO2_SW	421.1212133	3	CO2 sw measurement questionable but no obvious clues in diagnostics
11/12/2010 21:16	xCO2_SW	460.5052285	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/12/2010 21:16	xCO2_Air	383.018485	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/13/2010 0:16	xCO2_SW	460.782129	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/13/2010 0:16	xCO2_Air	383.6990478	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/13/2010 21:16	xCO2_SW	448.0055846	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/13/2010 21:16	xCO2_Air	383.7319091	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/14/2010 0:16	xCO2_SW	451.6550482	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/14/2010 0:16	xCO2_Air	384.2952785	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/14/2010 21:16	xCO2_SW	425.4954834	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/14/2010 21:16	xCO2_Air	383.5028301	3	likely bad CO2 air and sw measurement due to problems with the Licor

11/15/2010 0:16 problems with the Licor	xCO2_SW	421.3465443	3	likely bad CO2 air and sw measurement due to
11/15/2010 0:16 problems with the Licor	xCO2_Air	384.7734337	3	likely bad CO2 air and sw measurement due to
11/15/2010 21:16 problems with the Licor	xCO2_SW	435.4244304	3	likely bad CO2 air and sw measurement due to
11/15/2010 21:16 problems with the Licor	xCO2_Air	383.325559	3	likely bad CO2 air and sw measurement due to
11/16/2010 0:16 problems with the Licor	xCO2_SW	426.3547	3	likely bad CO2 air and sw measurement due to
11/16/2010 0:16 problems with the Licor	xCO2_Air	384.8493707	3	likely bad CO2 air and sw measurement due to
11/16/2010 21:16 problems with the Licor	xCO2_SW	444.049184	3	likely bad CO2 air and sw measurement due to
11/16/2010 21:16 problems with the Licor	xCO2_Air	383.3498197	3	likely bad CO2 air and sw measurement due to
11/17/2010 0:16 problems with the Licor	xCO2_SW	443.2387461	3	likely bad CO2 air and sw measurement due to
11/17/2010 0:16 problems with the Licor	xCO2_Air	384.6682652	3	likely bad CO2 air and sw measurement due to
11/17/2010 21:16 problems with the Licor	xCO2_SW	444.3030809	3	likely bad CO2 air and sw measurement due to
11/17/2010 21:16 problems with the Licor	xCO2_Air	383.6627298	3	likely bad CO2 air and sw measurement due to
11/18/2010 0:16 problems with the Licor	xCO2_SW	442.3297304	3	likely bad CO2 air and sw measurement due to
11/18/2010 0:16 problems with the Licor	xCO2_Air	383.5807682	3	likely bad CO2 air and sw measurement due to
11/18/2010 21:16 problems with the Licor	xCO2_SW	447.6241831	3	likely bad CO2 air and sw measurement due to
11/18/2010 21:16 problems with the Licor	xCO2_Air	383.5683885	3	likely bad CO2 air and sw measurement due to
11/19/2010 0:16 problems with the Licor	xCO2_SW	448.4330211	3	likely bad CO2 air and sw measurement due to
11/19/2010 0:16 problems with the Licor	xCO2_Air	383.61381	3	likely bad CO2 air and sw measurement due to
11/19/2010 21:16 problems with the Licor	xCO2_SW	450.79225	3	likely bad CO2 air and sw measurement due to
11/19/2010 21:16 problems with the Licor	xCO2_Air	383.5955135	3	likely bad CO2 air and sw measurement due to
11/20/2010 0:16 problems with the Licor	xCO2_SW	453.5629314	3	likely bad CO2 air and sw measurement due to
11/20/2010 0:16 problems with the Licor	xCO2_Air	384.6099607	3	likely bad CO2 air and sw measurement due to
11/20/2010 21:16 problems with the Licor	xCO2_SW	448.0778594	3	likely bad CO2 air and sw measurement due to
11/20/2010 21:16 problems with the Licor	xCO2_Air	383.9384206	3	likely bad CO2 air and sw measurement due to
11/21/2010 0:16 problems with the Licor	xCO2_SW	449.0467114	3	likely bad CO2 air and sw measurement due to
11/21/2010 0:16 problems with the Licor	xCO2_Air	385.6519597	3	likely bad CO2 air and sw measurement due to
11/21/2010 21:16 problems with the Licor	xCO2_SW	451.7372682	3	likely bad CO2 air and sw measurement due to
11/21/2010 21:16 problems with the Licor	xCO2_Air	384.2597135	3	likely bad CO2 air and sw measurement due to
11/22/2010 0:16 problems with the Licor	xCO2_SW	455.6339675	3	likely bad CO2 air and sw measurement due to

11/22/2010 0:16	xCO2_Air	385.6928052	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/22/2010 21:16	xCO2_SW	457.0485421	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/22/2010 21:16	xCO2_Air	384.2682214	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/23/2010 21:16	xCO2_SW	457.4601597	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/23/2010 21:16	xCO2_Air	384.3175356	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/24/2010 0:16	xCO2_SW	452.2860191	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/24/2010 0:16	xCO2_Air	385.7627915	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/24/2010 21:16	xCO2_SW	466.4267621	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/24/2010 21:16	xCO2_Air	383.9837821	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/25/2010 0:16	xCO2_SW	457.5605693	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/25/2010 0:16	xCO2_Air	384.0313884	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/25/2010 21:16	xCO2_SW	488.3094666	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/25/2010 21:16	xCO2_Air	383.5003822	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/26/2010 0:16	xCO2_SW	490.6272023	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/26/2010 0:16	xCO2_Air	384.0976562	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/26/2010 21:16	xCO2_SW	486.2179708	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/26/2010 21:16	xCO2_Air	383.1756126	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/27/2010 0:16	xCO2_SW	486.5778147	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/27/2010 0:16	xCO2_Air	384.4720483	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/27/2010 21:16	xCO2_SW	480.1138634	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/27/2010 21:16	xCO2_Air	383.8433913	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/28/2010 0:16	xCO2_SW	482.408606	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/28/2010 0:16	xCO2_Air	384.7250423	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/28/2010 21:16	xCO2_SW	503.4717508	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/28/2010 21:16	xCO2_Air	383.8948675	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/29/2010 0:16	xCO2_SW	498.912515	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/29/2010 0:16	xCO2_Air	384.7627281	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/29/2010 21:16	xCO2_SW	501.7184135	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
11/29/2010 21:16	xCO2_Air	383.4144469	3	likely bad CO2 air and sw measurement due to
problems with the Licor				

11/30/2010 0:16	xCO2_SW	498.6570852	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/30/2010 0:16	xCO2_Air	384.6705856	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/30/2010 21:16	xCO2_SW	489.6847983	3	likely bad CO2 air and sw measurement due to problems with the Licor
11/30/2010 21:16	xCO2_Air	383.3481463	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/1/2010 0:16	xCO2_SW	491.2539007	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/1/2010 0:16	xCO2_Air	384.6650038	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/1/2010 21:16	xCO2_SW	486.3368564	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/1/2010 21:16	xCO2_Air	384.0851618	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/2/2010 21:16	xCO2_SW	487.9141807	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/2/2010 21:16	xCO2_Air	384.1458499	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/3/2010 0:16	xCO2_SW	487.6075194	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/3/2010 0:16	xCO2_Air	385.4032698	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/3/2010 21:16	xCO2_SW	487.9759695	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/3/2010 21:16	xCO2_Air	383.8545985	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/4/2010 0:16	xCO2_SW	489.3354064	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/4/2010 0:16	xCO2_Air	384.5429943	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/4/2010 21:16	xCO2_SW	490.8213359	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/4/2010 21:16	xCO2_Air	383.8379188	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/5/2010 0:16	xCO2_SW	495.9789881	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/5/2010 0:16	xCO2_Air	384.9881265	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/5/2010 21:16	xCO2_SW	491.0903115	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/5/2010 21:16	xCO2_Air	383.8760209	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/6/2010 0:16	xCO2_SW	494.5118288	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/6/2010 0:16	xCO2_Air	384.0647738	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/6/2010 21:16	xCO2_SW	491.8560976	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/6/2010 21:16	xCO2_Air	384.5565403	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/7/2010 0:16	xCO2_SW	488.9800565	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/7/2010 0:16	xCO2_Air	385.315523	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/7/2010 21:16	xCO2_SW	495.5617635	3	likely bad CO2 air and sw measurement due to problems with the Licor

12/7/2010 21:16	xCO2_Air	383.4835703	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/8/2010 0:16	xCO2_SW	494.4165008	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/8/2010 0:16	xCO2_Air	383.4708965	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/8/2010 21:16	xCO2_SW	491.3210797	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/8/2010 21:16	xCO2_Air	383.3960963	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/9/2010 0:16	xCO2_SW	491.4636115	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/9/2010 0:16	xCO2_Air	383.7542628	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/9/2010 3:16	xCO2_SW	495.4914573	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/9/2010 3:16	xCO2_Air	384.4939527	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/9/2010 21:16	xCO2_SW	490.2585388	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/9/2010 21:16	xCO2_Air	383.2253796	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/10/2010 0:16	xCO2_SW	492.1849272	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/10/2010 0:16	xCO2_Air	384.195516	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/10/2010 21:16	xCO2_SW	490.980186	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/10/2010 21:16	xCO2_Air	385.0164404	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/11/2010 0:16	xCO2_SW	494.4488837	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/11/2010 0:16	xCO2_Air	384.804499	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/11/2010 3:16	xCO2_SW	492.4586404	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/11/2010 3:16	xCO2_Air	385.4481096	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/11/2010 21:16	xCO2_SW	486.0070752	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/11/2010 21:16	xCO2_Air	383.2008572	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/12/2010 0:16	xCO2_SW	486.1896051	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/12/2010 0:16	xCO2_Air	384.3890223	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/12/2010 3:16	xCO2_SW	497.0902488	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/12/2010 3:16	xCO2_Air	384.8115078	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/12/2010 21:16	xCO2_SW	495.4271243	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/12/2010 21:16	xCO2_Air	383.8052937	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/13/2010 0:16	xCO2_SW	494.623688	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/13/2010 0:16	xCO2_Air	384.1976998	3	likely bad CO2 air and sw measurement due to problems with the Licor

12/13/2010 21:16	xCO2_SW	495.0028936	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/13/2010 21:16	xCO2_Air	384.4154774	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/14/2010 0:16	xCO2_SW	497.821435	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/14/2010 0:16	xCO2_Air	385.2314518	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/14/2010 21:16	xCO2_SW	485.9871386	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/14/2010 21:16	xCO2_Air	384.7838756	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/15/2010 0:16	xCO2_SW	488.3957201	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/15/2010 0:16	xCO2_Air	385.0915375	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/15/2010 3:16	xCO2_SW	494.654224	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/15/2010 3:16	xCO2_Air	385.5514789	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/15/2010 21:16	xCO2_SW	482.9397198	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/15/2010 21:16	xCO2_Air	384.1221039	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/16/2010 0:16	xCO2_SW	485.6187773	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/16/2010 0:16	xCO2_Air	385.0932904	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/16/2010 21:16	xCO2_SW	480.5850941	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/16/2010 21:16	xCO2_Air	383.9474668	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/17/2010 0:16	xCO2_SW	484.3040395	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/17/2010 0:16	xCO2_Air	383.9965852	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/17/2010 21:16	xCO2_SW	477.9497193	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/17/2010 21:16	xCO2_Air	383.7990628	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/18/2010 0:16	xCO2_SW	484.3107793	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/18/2010 0:16	xCO2_Air	384.7763343	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/18/2010 21:16	xCO2_SW	483.8438964	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/18/2010 21:16	xCO2_Air	383.1235596	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/19/2010 0:16	xCO2_SW	490.0503904	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/19/2010 0:16	xCO2_Air	384.5317007	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/19/2010 21:16	xCO2_SW	501.4347948	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/19/2010 21:16	xCO2_Air	382.91534	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/20/2010 0:16	xCO2_SW	516.1407098	3	likely bad CO2 air and sw measurement due to
problems with the Licor				

12/20/2010 0:16	xCO2_Air	383.3452917	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/20/2010 21:16	xCO2_SW	504.4084744	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/20/2010 21:16	xCO2_Air	385.321213	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/21/2010 0:16	xCO2_SW	505.560874	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/21/2010 0:16	xCO2_Air	385.9808308	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/21/2010 21:16	xCO2_SW	479.4299448	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/21/2010 21:16	xCO2_Air	384.7971306	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/22/2010 0:16	xCO2_SW	481.8024858	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/22/2010 0:16	xCO2_Air	386.1320075	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/22/2010 21:16	xCO2_SW	482.9432195	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/22/2010 21:16	xCO2_Air	385.3473162	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/23/2010 0:16	xCO2_SW	484.5412958	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/23/2010 0:16	xCO2_Air	386.8280635	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/23/2010 21:16	xCO2_SW	482.2414065	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/23/2010 21:16	xCO2_Air	385.7096729	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/24/2010 0:16	xCO2_SW	480.6007508	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/24/2010 0:16	xCO2_Air	386.8611042	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/24/2010 21:16	xCO2_SW	478.8575797	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/24/2010 21:16	xCO2_Air	386.8440492	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/25/2010 0:16	xCO2_SW	479.1021046	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/25/2010 0:16	xCO2_Air	387.1137135	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/25/2010 12:16	xCO2_SW	476.9997771	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/25/2010 12:16	xCO2_Air	386.5907522	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/25/2010 21:16	xCO2_SW	481.1716267	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/25/2010 21:16	xCO2_Air	385.4121304	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/26/2010 0:16	xCO2_SW	480.3948097	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/26/2010 0:16	xCO2_Air	386.7900514	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/26/2010 21:16	xCO2_SW	484.5447135	3	likely bad CO2 air and sw measurement due to
problems with the Licor				
12/26/2010 21:16	xCO2_Air	384.6501973	3	likely bad CO2 air and sw measurement due to
problems with the Licor				

12/27/2010 0:16	xCO2_SW	482.8325527	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/27/2010 0:16	xCO2_Air	384.9851667	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/27/2010 21:16	xCO2_SW	483.3748338	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/27/2010 21:16	xCO2_Air	383.9912361	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/28/2010 0:16	xCO2_SW	486.5763268	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/28/2010 0:16	xCO2_Air	385.1680134	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/28/2010 21:16	xCO2_SW	479.9927842	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/28/2010 21:16	xCO2_Air	384.9400586	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/29/2010 0:16	xCO2_SW	482.5696023	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/29/2010 0:16	xCO2_Air	384.2533216	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/29/2010 21:16	xCO2_SW	475.2873531	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/29/2010 21:16	xCO2_Air	384.2277289	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/30/2010 0:16	xCO2_SW	480.6550249	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/30/2010 0:16	xCO2_Air	385.647687	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/30/2010 3:16	xCO2_SW	484.9119719	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/30/2010 3:16	xCO2_Air	386.4582491	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/31/2010 0:16	xCO2_SW	478.5709438	3	likely bad CO2 air and sw measurement due to problems with the Licor
12/31/2010 0:16	xCO2_Air	387.549586	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/1/2011 0:16	xCO2_SW	485.0758116	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/1/2011 0:16	xCO2_Air	387.1641599	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/1/2011 3:16	xCO2_SW	486.6538491	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/1/2011 3:16	xCO2_Air	386.6917342	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/1/2011 21:16	xCO2_SW	490.2351074	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/1/2011 21:16	xCO2_Air	385.0411101	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/2/2011 0:16	xCO2_SW	486.0395533	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/2/2011 0:16	xCO2_Air	385.6467781	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/2/2011 3:16	xCO2_SW	487.3188854	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/2/2011 3:16	xCO2_Air	386.8420056	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/2/2011 21:16	xCO2_SW	484.2304513	3	likely bad CO2 air and sw measurement due to problems with the Licor

1/2/2011 21:16	xCO2_Air	384.8084874	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/3/2011 0:16	xCO2_SW	483.5116722	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/3/2011 0:16	xCO2_Air	385.7877388	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/3/2011 3:16	xCO2_SW	489.9124529	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/3/2011 3:16	xCO2_Air	385.7780655	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/3/2011 21:16	xCO2_SW	486.6178771	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/3/2011 21:16	xCO2_Air	384.2298124	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/4/2011 0:16	xCO2_SW	485.5517597	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/4/2011 0:16	xCO2_Air	384.2993007	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/4/2011 3:16	xCO2_SW	490.7390143	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/4/2011 3:16	xCO2_Air	386.4631263	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/4/2011 21:16	xCO2_SW	484.2859708	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/4/2011 21:16	xCO2_Air	385.057484	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/5/2011 0:16	xCO2_SW	480.0020359	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/5/2011 0:16	xCO2_Air	385.6053648	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/5/2011 3:16	xCO2_SW	487.3408772	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/5/2011 3:16	xCO2_Air	386.4065202	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/5/2011 21:16	xCO2_SW	482.6058302	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/5/2011 21:16	xCO2_Air	384.0964022	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/6/2011 21:16	xCO2_SW	484.7353688	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/6/2011 21:16	xCO2_Air	386.1564607	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/7/2011 0:16	xCO2_SW	482.8986132	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/7/2011 0:16	xCO2_Air	386.1253679	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/7/2011 3:16	xCO2_SW	483.240597	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/7/2011 3:16	xCO2_Air	387.1623655	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/7/2011 21:16	xCO2_SW	486.386355	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/7/2011 21:16	xCO2_Air	384.8914665	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/8/2011 0:16	xCO2_SW	484.787101	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/8/2011 0:16	xCO2_Air	385.0347671	3	likely bad CO2 air and sw measurement due to problems with the Licor

1/8/2011 21:16	xCO2_SW	482.6907087	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/8/2011 21:16	xCO2_Air	384.8855313	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/9/2011 0:16	xCO2_SW	483.7971974	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/9/2011 0:16	xCO2_Air	385.9637758	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/9/2011 21:16	xCO2_SW	478.5376588	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/9/2011 21:16	xCO2_Air	385.8148427	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/10/2011 0:16	xCO2_SW	481.9120568	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/10/2011 0:16	xCO2_Air	385.9033916	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/10/2011 3:16	xCO2_SW	489.1214053	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/10/2011 3:16	xCO2_Air	386.7977263	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/10/2011 21:16	xCO2_SW	479.1635978	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/10/2011 21:16	xCO2_Air	385.928691	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/11/2011 0:16	xCO2_SW	477.1955732	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/11/2011 0:16	xCO2_Air	385.8586335	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/11/2011 21:16	xCO2_SW	476.750947	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/11/2011 21:16	xCO2_Air	385.6841566	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/12/2011 0:16	xCO2_SW	478.854233	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/12/2011 0:16	xCO2_Air	385.78707	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/12/2011 3:16	xCO2_SW	481.9935909	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/12/2011 3:16	xCO2_Air	386.6699943	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/12/2011 21:16	xCO2_SW	486.5874377	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/12/2011 21:16	xCO2_Air	385.7306535	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/13/2011 0:16	xCO2_SW	487.6703805	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/13/2011 0:16	xCO2_Air	385.878008	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/13/2011 3:16	xCO2_SW	492.3229219	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/13/2011 3:16	xCO2_Air	386.6699919	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/13/2011 21:16	xCO2_SW	492.1951207	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/13/2011 21:16	xCO2_Air	386.3010968	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/14/2011 0:16	xCO2_SW	493.8956064	3	likely bad CO2 air and sw measurement due to problems with the Licor

1/14/2011 0:16	xCO2_Air	386.4288442	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/14/2011 21:16	xCO2_SW	499.1573076	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/14/2011 21:16	xCO2_Air	387.6512837	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/15/2011 0:16	xCO2_SW	494.3044041	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/15/2011 0:16	xCO2_Air	387.892573	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/15/2011 21:16	xCO2_SW	504.3858683	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/15/2011 21:16	xCO2_Air	386.4242009	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/16/2011 0:16	xCO2_SW	500.7231267	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/16/2011 0:16	xCO2_Air	386.4641223	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/16/2011 3:16	xCO2_SW	498.8769748	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/16/2011 3:16	xCO2_Air	386.9838842	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/16/2011 21:16	xCO2_SW	490.8078758	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/16/2011 21:16	xCO2_Air	385.7412665	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/17/2011 0:16	xCO2_SW	493.4130081	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/17/2011 0:16	xCO2_Air	387.5464671	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/17/2011 21:16	xCO2_SW	483.3649022	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/17/2011 21:16	xCO2_Air	384.8795048	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/18/2011 0:16	xCO2_SW	484.7569759	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/18/2011 0:16	xCO2_Air	386.2265507	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/18/2011 21:16	xCO2_SW	480.9206871	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/18/2011 21:16	xCO2_Air	385.492041	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/19/2011 0:16	xCO2_SW	483.420778	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/19/2011 0:16	xCO2_Air	384.8371997	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/19/2011 21:16	xCO2_SW	476.1450306	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/19/2011 21:16	xCO2_Air	386.0307819	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/20/2011 0:16	xCO2_SW	479.7968514	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/20/2011 0:16	xCO2_Air	386.7596066	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/20/2011 21:16	xCO2_SW	489.7910246	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/20/2011 21:16	xCO2_Air	385.2450812	3	likely bad CO2 air and sw measurement due to problems with the Licor

1/21/2011 0:16	xCO2_SW	494.7418431	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/21/2011 0:16	xCO2_Air	386.2563505	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/21/2011 3:16	xCO2_SW	510.199929	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/21/2011 3:16	xCO2_Air	387.4182916	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/21/2011 21:16	xCO2_SW	481.7444317	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/21/2011 21:16	xCO2_Air	384.050655	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/22/2011 0:16	xCO2_SW	491.3361556	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/22/2011 0:16	xCO2_Air	384.4129001	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/22/2011 21:16	xCO2_SW	480.8207197	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/22/2011 21:16	xCO2_Air	385.80705	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/23/2011 0:16	xCO2_SW	490.6767166	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/23/2011 0:16	xCO2_Air	386.5895627	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/23/2011 21:16	xCO2_SW	479.0267904	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/23/2011 21:16	xCO2_Air	385.2524636	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/24/2011 0:16	xCO2_SW	486.3801828	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/24/2011 0:16	xCO2_Air	385.8373001	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/24/2011 21:16	xCO2_SW	485.0689916	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/24/2011 21:16	xCO2_Air	384.4276319	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/25/2011 0:16	xCO2_SW	492.3475025	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/25/2011 0:16	xCO2_Air	388.2414872	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/24/2011 21:16	xCO2_SW	485.0689916	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/24/2011 21:16	xCO2_Air	384.4276319	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/25/2011 0:16	xCO2_SW	492.3475025	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/25/2011 0:16	xCO2_Air	388.2414872	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/25/2011 21:16	xCO2_SW	480.9847588	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/25/2011 21:16	xCO2_Air	386.8402188	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/26/2011 0:16	xCO2_SW	484.2004372	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/26/2011 0:16	xCO2_Air	388.6789189	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/26/2011 21:16	xCO2_SW	473.5538044	3	likely bad CO2 air and sw measurement due to problems with the Licor

1/26/2011 21:16	xCO2_Air	387.2221688	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/27/2011 0:16	xCO2_SW	482.9031074	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/27/2011 0:16	xCO2_Air	387.4655367	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/27/2011 21:16	xCO2_SW	480.9026611	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/27/2011 21:16	xCO2_Air	386.8778509	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/28/2011 0:16	xCO2_SW	486.6606814	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/28/2011 0:16	xCO2_Air	388.4651142	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/28/2011 21:16	xCO2_SW	481.21355	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/28/2011 21:16	xCO2_Air	386.381163	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/29/2011 0:16	xCO2_SW	487.5008041	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/29/2011 0:16	xCO2_Air	387.9433583	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/29/2011 21:16	xCO2_SW	473.0510198	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/29/2011 21:16	xCO2_Air	386.6240467	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/30/2011 0:16	xCO2_SW	478.2453858	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/30/2011 0:16	xCO2_Air	388.263827	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/30/2011 21:16	xCO2_SW	468.425421	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/30/2011 21:16	xCO2_Air	386.6867197	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/31/2011 0:16	xCO2_SW	469.8559193	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/31/2011 0:16	xCO2_Air	388.2122641	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/31/2011 21:16	xCO2_SW	467.9402338	3	likely bad CO2 air and sw measurement due to problems with the Licor
1/31/2011 21:16	xCO2_Air	386.2427376	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/1/2011 21:16	xCO2_SW	467.0636649	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/1/2011 21:16	xCO2_Air	387.6173681	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/2/2011 0:16	xCO2_SW	468.5813476	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/2/2011 0:16	xCO2_Air	388.1052251	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/2/2011 21:16	xCO2_SW	475.7450128	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/2/2011 21:16	xCO2_Air	385.9689865	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/3/2011 0:16	xCO2_SW	480.4628159	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/3/2011 0:16	xCO2_Air	386.190753	3	likely bad CO2 air and sw measurement due to problems with the Licor

2/3/2011 21:16	xCO2_SW with the Licor	473.1766142	3	likely bad CO2 air and sw measurement due to problems
2/3/2011 21:16	xCO2_Air with the Licor	387.2161617	3	likely bad CO2 air and sw measurement due to problems
2/4/2011 0:16	xCO2_SW with the Licor	471.5594893	3	likely bad CO2 air and sw measurement due to problems
2/4/2011 0:16	xCO2_Air with the Licor	387.5482226	3	likely bad CO2 air and sw measurement due to problems
2/4/2011 21:16	xCO2_SW with the Licor	479.3649478	3	likely bad CO2 air and sw measurement due to problems
2/4/2011 21:16	xCO2_Air with the Licor	385.7117887	3	likely bad CO2 air and sw measurement due to problems
2/5/2011 0:16	xCO2_SW with the Licor	482.9545639	3	likely bad CO2 air and sw measurement due to problems
2/5/2011 0:16	xCO2_Air with the Licor	385.9459865	3	likely bad CO2 air and sw measurement due to problems
2/5/2011 3:16	xCO2_SW with the Licor	484.8374925	3	likely bad CO2 air and sw measurement due to problems
2/5/2011 3:16	xCO2_Air with the Licor	386.6804657	3	likely bad CO2 air and sw measurement due to problems
2/5/2011 21:16	xCO2_SW with the Licor	482.8246725	3	likely bad CO2 air and sw measurement due to problems
2/5/2011 21:16	xCO2_Air with the Licor	385.3583684	3	likely bad CO2 air and sw measurement due to problems
2/6/2011 0:16	xCO2_SW with the Licor	482.9712245	3	likely bad CO2 air and sw measurement due to problems
2/6/2011 0:16	xCO2_Air with the Licor	385.8444379	3	likely bad CO2 air and sw measurement due to problems
2/6/2011 21:16	xCO2_SW with the Licor	485.2882907	3	likely bad CO2 air and sw measurement due to problems
2/6/2011 21:16	xCO2_Air with the Licor	385.6853787	3	likely bad CO2 air and sw measurement due to problems
2/7/2011 0:16	xCO2_SW with the Licor	485.7541003	3	likely bad CO2 air and sw measurement due to problems
2/7/2011 0:16	xCO2_Air with the Licor	387.3091338	3	likely bad CO2 air and sw measurement due to problems
2/7/2011 3:16	xCO2_SW with the Licor	491.8972375	3	likely bad CO2 air and sw measurement due to problems
2/7/2011 3:16	xCO2_Air with the Licor	387.701015	3	likely bad CO2 air and sw measurement due to problems
2/7/2011 21:16	xCO2_SW with the Licor	488.5854285	3	likely bad CO2 air and sw measurement due to problems
2/7/2011 21:16	xCO2_Air with the Licor	385.8105686	3	likely bad CO2 air and sw measurement due to problems
2/8/2011 0:16	xCO2_SW with the Licor	487.5761414	3	likely bad CO2 air and sw measurement due to problems
2/8/2011 0:16	xCO2_Air with the Licor	386.1622335	3	likely bad CO2 air and sw measurement due to problems
2/8/2011 3:16	xCO2_SW with the Licor	491.4444073	3	likely bad CO2 air and sw measurement due to problems
2/8/2011 3:16	xCO2_Air with the Licor	387.0651523	3	likely bad CO2 air and sw measurement due to problems
2/8/2011 21:16	xCO2_SW with the Licor	489.4675257	3	likely bad CO2 air and sw measurement due to problems
2/8/2011 21:16	xCO2_Air with the Licor	385.4172447	3	likely bad CO2 air and sw measurement due to problems
2/9/2011 0:16	xCO2_SW with the Licor	490.545044	3	likely bad CO2 air and sw measurement due to problems

2/9/2011 0:16	xCO2_Air	386.1684	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/9/2011 3:16	xCO2_SW	492.5109844	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/9/2011 3:16	xCO2_Air	387.2884324	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/9/2011 21:16	xCO2_SW	492.445268	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/9/2011 21:16	xCO2_Air	385.203403	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/10/2011 0:16	xCO2_SW	491.3422055	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/10/2011 0:16	xCO2_Air	386.2771348	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/10/2011 21:16	xCO2_SW	495.0560005	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/10/2011 21:16	xCO2_Air	386.1575082	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/11/2011 0:16	xCO2_SW	508.4208831	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/11/2011 0:16	xCO2_Air	384.966219	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/11/2011 3:16	xCO2_SW	529.5537934	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/11/2011 3:16	xCO2_Air	387.5383597	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/11/2011 21:16	xCO2_SW	494.1571718	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/11/2011 21:16	xCO2_Air	386.5299667	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/12/2011 0:16	xCO2_SW	512.5600937	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/12/2011 0:16	xCO2_Air	385.2297253	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/12/2011 3:16	xCO2_SW	538.0475662	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/12/2011 3:16	xCO2_Air	385.9016935	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/12/2011 21:16	xCO2_SW	484.7858481	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/12/2011 21:16	xCO2_Air	387.3225213	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/13/2011 0:16	xCO2_SW	491.882451	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/13/2011 0:16	xCO2_Air	386.6699984	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/13/2011 3:16	xCO2_SW	497.6061748	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/13/2011 3:16	xCO2_Air	388.6676913	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/13/2011 21:16	xCO2_SW	493.485074	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/13/2011 21:16	xCO2_Air	386.5006721	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/14/2011 0:16	xCO2_SW	498.0379718	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/14/2011 0:16	xCO2_Air	386.4716266	3	likely bad CO2 air and sw measurement due to problems with the Licor

2/14/2011 3:16	xCO2_SW	530.8226665	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/14/2011 3:16	xCO2_Air	387.8740405	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/14/2011 21:16	xCO2_SW	482.9257351	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/14/2011 21:16	xCO2_Air	386.2813735	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/15/2011 0:16	xCO2_SW	486.0508125	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/15/2011 0:16	xCO2_Air	387.24598	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/15/2011 21:16	xCO2_SW	483.1841712	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/15/2011 21:16	xCO2_Air	384.6515697	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/16/2011 0:16	xCO2_SW	503.9516644	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/16/2011 0:16	xCO2_Air	385.7372891	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/16/2011 3:16	xCO2_SW	527.3671729	3	questionable CO2 sw measurement - may be due to problems with zero calibration
2/16/2011 6:16	xCO2_SW	516.8102343	3	questionable CO2 sw measurement - may be due to problems with zero calibration
2/16/2011 21:16	xCO2_SW	487.54683	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/16/2011 21:16	xCO2_Air	386.4417129	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/17/2011 0:16	xCO2_SW	503.3250973	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/17/2011 0:16	xCO2_Air	385.4451466	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/17/2011 3:16	xCO2_SW	539.3660349	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/17/2011 3:16	xCO2_Air	389.033341	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/17/2011 6:16	xCO2_SW	524.7941699	3	questionable CO2 sw measurement - may be due to problems with zero calibration
2/17/2011 21:16	xCO2_SW	483.522248	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/17/2011 21:16	xCO2_Air	387.1074454	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/18/2011 0:16	xCO2_SW	499.5549095	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/18/2011 0:16	xCO2_Air	389.0965213	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/18/2011 3:16	xCO2_SW	499.3416562	3	questionable CO2 sw measurement - may be due to problems with zero calibration
2/18/2011 21:16	xCO2_SW	481.5460094	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/18/2011 21:16	xCO2_Air	388.1690809	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/19/2011 0:16	xCO2_SW	483.1822158	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/19/2011 0:16	xCO2_Air	388.540535	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/19/2011 21:16	xCO2_SW	483.0724	3	likely bad CO2 air and sw measurement due to problems with the Licor

2/19/2011 21:16	xCO2_Air	385.315279	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/20/2011 0:16	xCO2_SW	490.3148753	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/20/2011 0:16	xCO2_Air	386.2773567	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/20/2011 3:16	xCO2_SW	506.0151903	3	questionable CO2 sw measurement - may be due to problems with zero calibration
2/20/2011 21:16	xCO2_SW	481.6663855	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/20/2011 21:16	xCO2_Air	387.7724673	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/21/2011 0:16	xCO2_SW	481.3631232	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/21/2011 0:16	xCO2_Air	388.5005176	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/21/2011 21:16	xCO2_SW	476.0736724	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/21/2011 21:16	xCO2_Air	387.4821715	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/22/2011 0:16	xCO2_SW	476.9024011	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/22/2011 0:16	xCO2_Air	387.6376327	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/22/2011 21:16	xCO2_SW	470.7120795	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/22/2011 21:16	xCO2_Air	387.9329578	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/23/2011 0:16	xCO2_SW	474.4266711	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/23/2011 0:16	xCO2_Air	388.467638	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/23/2011 21:16	xCO2_SW	469.1180215	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/23/2011 21:16	xCO2_Air	386.7802848	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/24/2011 0:16	xCO2_SW	472.2327605	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/24/2011 0:16	xCO2_Air	386.6852779	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/24/2011 21:16	xCO2_SW	469.5331408	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/24/2011 21:16	xCO2_Air	386.2407038	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/25/2011 0:16	xCO2_SW	472.8198712	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/25/2011 0:16	xCO2_Air	386.7026793	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/25/2011 21:16	xCO2_SW	470.8745586	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/25/2011 21:16	xCO2_Air	386.2990325	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/26/2011 0:16	xCO2_SW	473.1749354	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/26/2011 0:16	xCO2_Air	386.45469	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/26/2011 21:16	xCO2_SW	469.0185843	3	likely bad CO2 air and sw measurement due to problems with the Licor

2/26/2011 21:16	xCO2_Air	385.8192975	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/27/2011 0:16	xCO2_SW	474.3359095	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/27/2011 0:16	xCO2_Air	386.8684125	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/27/2011 21:16	xCO2_SW	471.1381254	3	likely bad CO2 air and sw measurement due to problems with the Licor
2/27/2011 21:16	xCO2_Air	386.4537228	3	likely bad CO2 air and sw measurement due to problems with the Licor